

Title (en)
SYSTEMS AND COMPOSITIONS FOR LOCAL IMAGING AND TREATMENT OF PAIN

Title (de)
SYSTEME UND ZUSAMMENSETZUNGEN FÜR DIE LOKALE DARSTELLUNG UND BEHANDLUNG VON SCHMERZEN

Title (fr)
SYSTEMES ET COMPOSITIONS POUR REPRESENTER LOCALEMENT ET TRAITER LA DOULEUR

Publication
EP 1933714 A2 20080625 (EN)

Application
EP 06815161 A 20060921

Priority
• US 2006036943 W 20060921
• US 71967005 P 20050921
• US 75099005 P 20051215

Abstract (en)
[origin: WO2007035906A2] Pain factors are labeled with targeted agents or markers delivered into the body. The labeled pain factors are imaged with appropriate imaging tools in a manner allowing selective identification and localization of areas of pain source or transmission. The labeled pain factors allow spatial differentiation in the imaging sufficient to specify the location of the pain so as to drive therapeutic decisions and techniques in order to treat the pain. Pain factors labeled and imaged in this manner may include one or more of nerve factors, blood vessel factors, cellular factors, and inflammation factors. Labeled markers may include for example radioactive materials (e.g. tritiated or iodinated molecules) or other materials such as metal (e.g. gold) nanoparticles. Intermediary binding materials may be used, such as for example bi-specific antibodies. Therapeutic components of the system and method include for example localized energy delivery or ablation treatments, or local drug or other chemical delivery. Locations containing pain factor selectively bound by targeted agents are selectively treated with directed energy into a region containing the targeted agent bound to the pain factor.

IPC 8 full level
A61B 5/00 (2006.01); **A61K 51/00** (2006.01)

CPC (source: EP US)
A61B 5/4041 (2013.01 - US); **A61B 6/506** (2013.01 - EP US); **A61B 18/14** (2013.01 - US); **A61K 49/0002** (2013.01 - EP US); **A61K 51/1096** (2013.01 - US); **A61M 5/007** (2013.01 - US); **A61M 5/1723** (2013.01 - US); **A61N 7/02** (2013.01 - EP US); **A61P 19/00** (2017.12 - EP); **A61P 19/02** (2017.12 - EP); **A61P 21/00** (2017.12 - EP); **A61P 25/00** (2017.12 - EP); **A61P 29/00** (2017.12 - EP); **A61B 5/4824** (2013.01 - EP US); **A61B 2018/00339** (2013.01 - US); **A61B 2018/00577** (2013.01 - US); **A61B 2018/00642** (2013.01 - US); **A61M 2230/005** (2013.01 - US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
WO 2007035906 A2 20070329; WO 2007035906 A3 20090423; CA 2623648 A1 20070329; CA 2623648 C 20180522; CA 2862540 A1 20070329; CA 2862540 C 20180731; CA 3008270 A1 20070329; CN 101528115 A 20090909; CN 101528115 B 20140625; EP 1933714 A2 20080625; EP 1933714 A4 20101020; EP 1933714 B1 20200318; JP 2009508970 A 20090305; JP 2013151512 A 20130808; JP 2016026148 A 20160212; US 10123759 B2 20181113; US 2009030308 A1 20090129; US 2016136310 A1 20160519; US 2019216418 A1 20190718; US 2021077048 A1 20210318; US 2023240637 A1 20230803; US 9161735 B2 20151020

DOCDB simple family (application)
US 2006036943 W 20060921; CA 2623648 A 20060921; CA 2862540 A 20060921; CA 3008270 A 20060921; CN 200680042827 A 20060921; EP 06815161 A 20060921; JP 2008532410 A 20060921; JP 2013039071 A 20130228; JP 2015151896 A 20150731; US 201514850945 A 20150910; US 201816158610 A 20181012; US 202016840136 A 20200403; US 202217955149 A 20220928; US 5337908 A 20080321